

CEMSTAR® LR ONE-COMPONENT WATERPROOFING COMPOUND

One-component, liquid applied waterproofing sealant that forms a high-performance elastomeric waterproof membrane.

PRODUCT DESCRIPTION

CEMstar® LR is a one-component, liquid applied waterproofing sealant that forms a high-performance elastomeric waterproof membrane. CEMstar® LR can be used for the protection and regeneration of a wide variety of materials, such as concrete, bituminous and mineral surfaces, PVC, metal, stone, wood. CEMstar® LR protects underground structures according to DIN EN 15814 DIN 18533 part 3 permanently against W1 E (ground damp and pressure-free water) and W4-E (splash water and ground damp at wall base).

APPLICATION AREA

CEMstar® LR is suitable for sealing and protecting a wide variety of materials, such as concrete, metal, stone, wood, bitumen, zinc, PVC, EPDM (test first), etc. For floors, partitions, walls, seams, joints, conduits and structural components. Excellent for both interior and exterior applications (bathrooms, cellars, balconies, roofs, etc.) including gutters, shower basins, conduit ducts, floor seams, expansion joints, window frame joints and ground level items. Also suitable as a waterproof layer under tiles in damp environments such as bathrooms, swimming pools, balconies, terraces, etc.

PRODUCT FEATURES AND BENEFITS

- ♣ Solvent-free and environmentally friendly
- ♣ Ready to use
- ♣ Extremely crack-bridging and flexible (900%)
- ♣ Highly polymerized
- ♣ Applicable with a pump/spray, roll or brush
- ♣ Easy processing
- ♣ Good stability
- ♣ Seamless hard-drying
- ♣ Adheres to bituminous and mineral substrates as well as to wood, plastic, metal and insulation surfaces
- ♣ UV-resistant
- ♣ Impervious to radon
- ♣ Good resistance to high and low temperatures
- ♣ Frost-free at least 12 months shelf-life

DELIVERY FORM

	CEMstar® LR	Article-No.
Deliver form	5 kg bucket / 60 buckets per pallet	
	10 kg bucket / 44 buckets per pallet	
	30 kg bucket / 18 buckets per pallet	
Storage	Frost-free at least 12 months shelf-life	



TEST REPORTS

CE marking EN 15814, polymer modified bituminous thick coatings for waterproofing

TECHNICAL SPECIFICATIONS

Material	Polymer modified bitumen
Density:	1,20 kg / l
Material shrinkage	38 %
Complete hardening / full loading capacity	24 hours (based on standard climate of +23 ° C and 50 % relative humidity)
Rain resistance after	8 hours (based on standard climate of +23 ° C and 50 % relative humidity)
Consumption	1,5 – 2,0 kg / m ²
Elongation at break	> 900 %
Crack bridging	Up to 2,0 mm / 1,0 bar
Dimensional stability	Up to +180 ° C
Flexibility in cold temperatures	- 20 °C
Working and drying temperature	+5 to + 30 ° C

ADDITIONAL INFORMATION

Water influence classes	MDLT (minimum dry layer thickness)	WLT (Wet layer thickness)	Consumption
W1-E (ground damp and pressure-free water)	3 mm	4,83 mm	5,80 kg / m ²
W4-E (splash water and ground damp at wall base)	3 mm	4,83 mm	5,80 kg / m ²
Scratch coating			1 – 2 kg / m ²

OTHERS



Preparation

The surface must be dry, clean and free of dust, oil, grease, tar, cracks, dirt, residue mortar or other potential contaminants. Larger cracks or flaws shall be filled. When using in the waterproofing of underground structures open butt joints or pits > 5 mm must be filled using a suitable mortar.

Application

CEMstar® LR is ready to use and can be applied directly out of the bucket using a brush, roller, trowel or suitable spraying equipment.

Protection and sealing of underground structures:

CEMstar® LR is ready to use and is applied evenly in at least two coats. Application to the required layer thickness is carried out using either suitable airless spraying equipment, a smoothing trowel or a normal trowel. The second coat may be applied as soon as the first coat is dry enough so that it cannot be damaged. Tools and equipment should be cleaned using water immediately after use.

The required minimum dry coat thickness must be maintained across the entire working area. During work breaks the polymer-modified coating has to be 'scraped down to nothing' and must not end on/in a corner of the building. The waterproof coating is to be protected in accordance with DIN 18533 part 1. Verification of the layer thickness is carried out by measuring the wet layer thickness in accordance with DIN 18195 supplement 2. It has to be carried out according to DIN 18533 part 3 in at least 10 places per project and one per 100 m². To test the drying and adhesion of the PMBC applied, the PMBC has to be passed through the 15 cm connection area. In these areas, the drying and adhesion must be tested in a destructive manner. Results of this check must be documented.

Legal

The above information, in particular the suggestions for processing and using our products, are based on our experience and knowledge in the normal case, provided the products have been properly stored and used. Due to the different materials, surfaces and different working conditions, a guarantee of a work result or liability, for whatever legal relationship, cannot be based on this information or verbal advice, unless we are guilty of intent or gross negligence falls. The user has to prove that he has submitted all the knowledge in writing that is necessary for the appropriate and promising assessment by BPA in good time and in full. The user has to check the products for their suitability for the intended application. Changes at the product specifications are reserved.

